

Date: Thu, 3 Feb 94 04:30:42 PST
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V94 #18
To: Ham-Homebrew

Ham-Homebrew Digest Thu, 3 Feb 94 Volume 94 : Issue 18

Today's Topics:

 High Voltage Power Supply
 Mystery components? Help? (4 msgs)
 new Radio Communications mailing list
 Old Microwave Oven
PROJECT 14: THE WORLD'S SMALLEST TRANSMITTER
 VLF/ELF

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sat, 29 Jan 94 23:13:16 GMT
From: agate!library.ucla.edu!europa.eng.gtefsd.com!emory!rsiatl!
jgd@network.ucsd.edu
Subject: High Voltage Power Supply
To: ham-homebrew@ucsd.edu

(Earl Morse) writes:

```
>>Martin Stille (msti0087@rz.uni-hildesheim.de) wrote:  
>> Hi OM's  
>>  
>> I need a high voltage power supply for a tube PA.  
>> But I can't find the right schematic and part list.  
>> The tube runs with a current of 7000V and 2Amp.  
>> I hope you can help me.  
>> Thank's Martin
```

As usual, the hams display their retentiveness but no answers.

I suggest you contact Peter Dahl Inc, 4007 Fort Blvd, El Paso, Texas 79930 915 566 5365. That's a fairly old number and I don't know if it is still good or not but that ought to give you a start. Dahl makes custom transformers and power supplies. He has always been cheaper than I could buy the components for, not to mention that since he winds his own transformers, he can supply any voltage and KVA you need.

John

--

John De Armond, WD40QC, Marietta, GA jgd@dixie.com
Performance Engineering Magazine.

"Dr. Kevorkian, you're needed in the Oval Office."

Date: Sun, 30 Jan 1994 06:39:47 GMT
From: agate!howland.reston.ans.net!vixen.cso.uiuc.edu!sdd.hp.com!caen!
usenet.coe.montana.edu!netnews.nwnet.net!raven.alaska.edu!aurora.alaska.edu!
fsrla@network.ucsd.edu
Subject: Mystery components? Help?
To: ham-homebrew@ucsd.edu

HELP!!!!!!!!!

I ordered a couple of "assortment" packages from ALL ELECTRONICS. Now, I could figure out what most things were, but there were still some "mystery" components that I just can't figure out.

FIRST, I ordered the 200 Assorted 1/4 watt resistors for a buck assortment. (part# GRES) ha

I figure d out most of these except for two odd ones. The first was a resistor with just a single black stripe running down the middle of it.....what is it?

The second one was blue and had the following letter, number sequence.

P
RN55D
3572
FJ

What is this one?

The other assortment pack I got was just 200 assorted resistors, capacitors, and diodes. There were some things in here that baffled me as well. First off, all the capacitors were strange to me. I'm used to radials and disks, but these ones where different.

They had the following number sequences.

The fist one: 1M+ The second: .47 and the third:

1 62D

35V 2

35VK

1-35V

cicled< 8034+

2+

2+

Any help on these?

And, lastly, are the diods from this group.

There were a bunch of black (silicon?) diodes. The only mark they had was a single yellow line on one edge. Any help here?

Hope these aren't stupid questions. any help is much appreciated!

Thanks in advance!

Email at: FSRLA@AURORA.ALASKA.EDU

Roger Asbury WL7NT

Date: Mon, 31 Jan 1994 20:11:55 GMT

From: library.ucla.edu!europa.eng.gtefsd.com!howland.reston.ans.net!

vixen.cso.uiuc.edu!sdd.hp.com!col.hp.com!srgenprp!alanb@network.ucsd.edu

Subject: Mystery components? Help?

To: ham-homebrew@ucsd.edu

fsrla@aurora.alaska.edu (fsrla@aurora.alaska.edu) wrote:

: The first was a resistor with just a single black stripe

: running down the middle of it.....what is it?

Black is the color for zero. It could be a zero-ohm resistor. Don't laugh -- we have them in our labstock here at work. Ours have a single black stripe painted around the body. They are used for jumpers.

AL N1AL

Date: Tue, 1 Feb 1994 19:08:43 GMT

From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!vixen.cso.uiuc.edu!

sdd.hp.com!hpscit.sc.hp.com!news.dtc.hp.com!col.hp.com!csn!server!stortek.com!

patrick_tattro@network.ucsd.edu

Subject: Mystery components? Help?

To: ham-homebrew@ucsd.edu

In article <CKIG3w.LKD@srgenprp.sr.hp.com> alanb@srgenprp.sr.hp.com (Alan Bloom) writes:

>From: alanb@srgenprp.sr.hp.com (Alan Bloom)

>Subject: Re: Mystery components? Help?

>Date: Mon, 31 Jan 1994 20:11:55 GMT

>fsrla@aurora.alaska.edu (fsrla@aurora.alaska.edu) wrote:
> The first was a resistor with just a single black stripe
> running down the middle of it.....what is it?

>Black is the color for zero. It could be a zero-ohm resistor. Don't
>laugh -- we have them in our labstock here at work. Ours have a
>single black stripe painted around the body. They are used for jumpers.

>AL N1AL

The reason zero ohm resistors are used is because automated assembly
equipment can pick and place them where they couldn't pick up a jumper wire.

Date: 30 Jan 1994 14:57:16 GMT
From: agate!howland.reston.ans.net!usenet.ins.cwru.edu!lerc.nasa.gov!
news.larc.nasa.gov!grissom.larc.nasa.gov!kludge@network.ucsd.edu
Subject: Mystery components? Help?
To: ham-homebrew@ucsd.edu

In article <1994Jan29.213947.1@aurora.alaska.edu> fsrla@aurora.alaska.edu writes:
>The first was a resistor with just a single black stripe
>running down the middle of it.....what is it?

This is a zero ohm resistor. They are used in place of jumpers in mass
produced gear because the same pick-and-place machines that insert the
resistors can be used to insert them. They aren't of great use for your
personal design stuff, although they make great earrings. (See the discussion
on rec.arts.bodyart on the subject).

>The second one was blue and had the following letter, number sequence.
> P
> RN55D
> 3572
> FJ
>What is this one?

Two pins on it? Shaped like a disc capacitor?

--scott

--

"C'est un Nagra. C'est suisse, et tres, tres precis."

Date: Wed, 2 Feb 1994 23:15:48 GMT
From: dog.ee.lbl.gov!newshub.nosc.mil!news!martinb@network.ucsd.edu

Subject: new Radio Communications mailing list
To: ham-homebrew@ucsd.edu

NRaD RADIO COMMUNICATIONS NETWORK

We are beginning a new mailing list for the professional radio communications engineering community. *rec.radio.amateur.** is a well established source of information for radio hobbyists, but it does not meet the needs of many commercial, military, and academic professionals.

Therefore, we are hoping that this mailing list will somewhat fulfill this need. Relevant topics include: radio propagation, antenna design, hardware design, FCC regulations, industry trends, parts suppliers, military requirements, and so forth. We would prefer that hobby-oriented topics remain on the established newsgroups.

To subscribe, send a message to me at:
martinb@cod.nosc.mil

I will add your name to the list and send you an informational message about the operation of the mailing list. If you wish to unsubscribe, send me a message, and I will remove your name from the mailing list.

Brett F. Martin
Naval Command, Control, and Ocean Surveillance Center
Research, Development, Test, and Evaluation Division
(NRaD)
San Diego CA

.

Date: 1 Feb 1994 18:57:11 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!elroy.jpl.nasa.gov!newncar!
ren@network.ucsd.edu
Subject: Old Microwave Oven
To: ham-homebrew@ucsd.edu

Recently a neighbor threw out a microwave oven, being an avid recycler and former uwave repairman, I was duty bound to take it

home. Well it operates, but it leaks radiation like crazy, (I measured it with a Schottky Barrier Diode and an LED but that's another story...) so I'm not gonna use it (I've got a decent Amana anyway).

Soooo.....what can I do with it? I recall reading on the net where someone thought the Magnetron and Pwr Sup. could be used for EME morse code transmission. But what else?

Yeah, I know I could rip the maggie apart for a refridgerator magnet. Oh yeah, it's an old style, i.e. motorized, not digital, timer. And I also recall somewhere about cutting off the transformer secondary wires and rewiring for a custom power supply...

So send me your ideas, and I will summarize...

ren N0PVI
dona nobis pacem

Date: Mon, 31 Jan 1994 15:18:21 GMT
From: nntp.ucsb.edu!library.ucla.edu!agate!msuinfo!uchinews!att-out!cbfsb!
cbnewsg.cb.att.com!mam@network.ucsd.edu
Subject: PROJECT 14: THE WORLD'S SMALLEST TRANSMITTER
To: ham-homebrew@ucsd.edu

>
> Try using a 4049 or 74C04; use one inverter as a crystal osc (two
> caps + crystal) and the other five in parallel as a buffer. Use a small
> cap to couple the antenna, maybe 100pF.

I hate to be an idiot (what a leading phrase!!!) but could you draw a simple diagram of this? I follow instructions real good, but an not an electrical engineer.

> For peace of mind you might want to add a bandpass filter to the
>output.
>
> or maybe a lowpass filter; that adds at least three more components.
> The 74C04 approach would really benefit from an LPF, too.

More diagrams, please. I love building these simple circuits!!!

Date: 2 Feb 94 19:45:49 GMT
From: news-mail-gateway@ucsd.edu
Subject: VLF/ELF
To: ham-homebrew@ucsd.edu

The address of the LWCA (as of '91, anyway) was/is:

45 Wildflower Road
Levittown, PA 19057

They will likely send a sample copy of their publication if you send them a buck and a LARGE SASE (i.e. to accomodate the size and weight of a publication that is 8.5" x 5.5" and up to a dozen sheets...)

Recent 73 Mags (Jan, Feb, and March, presumably) have had an article on a WWVB receiver for the purposes of using its 60 KHz signal as a local frequency reference.

<Clint>

ka7oei@uugate.wa7slg.ampr.org (amprnet/internet)
ka7oei@wb7esh (msys)

Date: Mon, 31 Jan 1994 05:09:59 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!
news.ans.net!newsgate.watson.ibm.com!yktnews.watson.ibm.com!uri@network.ucsd.edu
To: ham-homebrew@ucsd.edu

References <arog.759386054@BIX.com>, <654f021a5b3Z01@JUTS.ccc.amdahl.com>, <759831571snx@djwhome.demon.co.uk>
Reply-To : uri@watson.ibm.com
Subject : Schematics CAD, anyone?

Hi,

Is there a decent CAD program, that does schematics?
If it can _also_ output results in format either
suitable for Gerber, or compatible with other
PCB layout programs, like EasyTrax - great.
If not - I still need a tool to draw (:-).
Freeware is prefered, as usually (:-).
Also, I'd really like it to have a reasonable
library of components - for I hate to teach
a computer how to draw a transistor (:-).

Thanks! Please e-mail responses.

--

Regards,
Uri. uri@watson.ibm.com scifi!angmar!uri

<Disclaimer>

End of Ham-Homebrew Digest V94 #18
